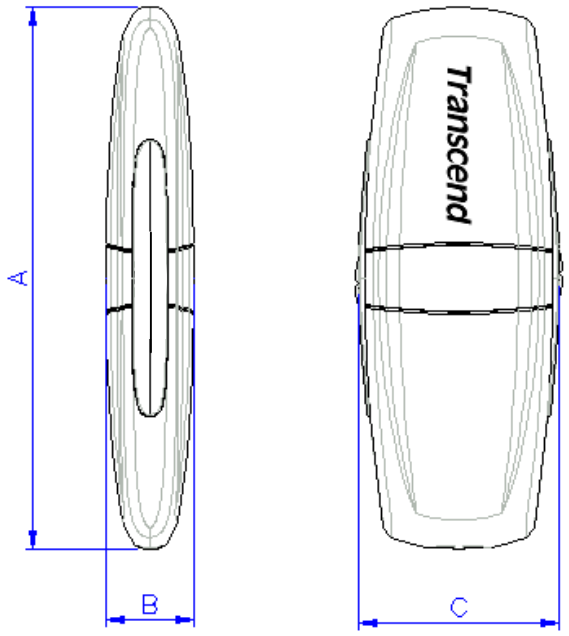
TS512MJF2A

512MB USB2.0 JetFlash™2A

Description

TS512MJF2A is a 512MB USB Flash Drive with 1 pcs of 512Mx8 Flash Memory assembled on printed circuit board.

Outline



Features

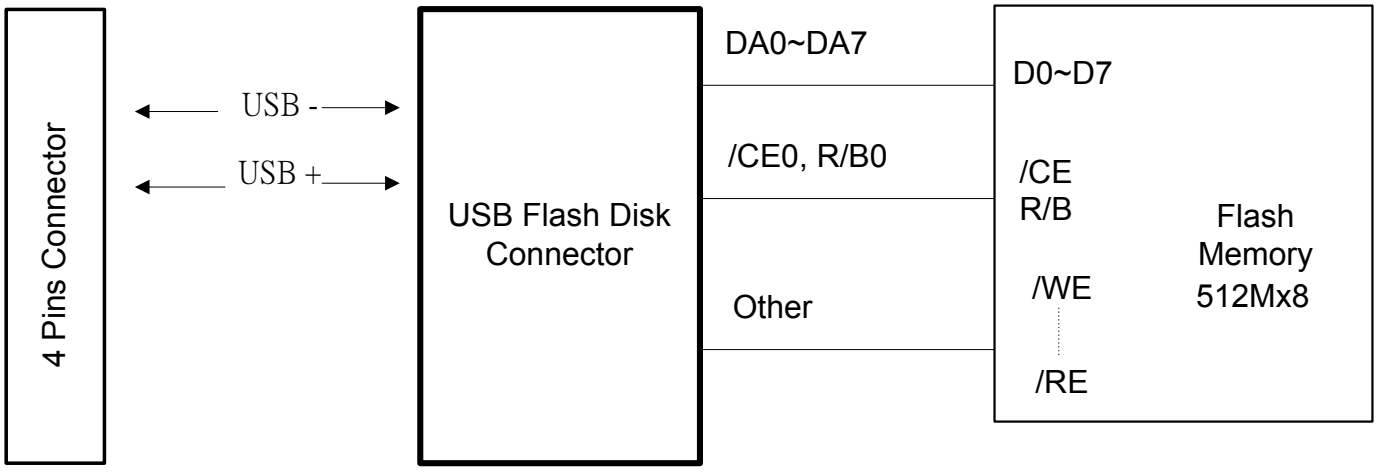
- Color: Silver
- USB Interface: Compliant with USB specification 2.0.
- Security Function: Password protection provided
- Boot-Up Function: Support USB-ZIP/USB-HDD boot-up mode supported
- PC-Lock Function: Makes JF2A the key to your computer
- No external power or battery needed
- LED indicates the usage status.

Dimensions

Side	Millimeters	Inches
A	75 ± 1.00	2.95 ± 0.04
B	11 ± 1.00	0.43 ± 0.04
C	25 ± 1.00	0.98 ± 0.04

Block Diagram

- **With 1 pcs of 512Mx8 Flash Memory**



Pinouts

Pin No.	Pin Name
01	VCC
02	USB-
03	USB+
04	VSS

Pin Identification

Symbol	Function
USB-	USB differential signal:
USB+	The pairs are used to transmit Data/Address/Command
VSS	Ground
VCC	USB power input

Specifications

Storage Capacity	512MB
Data Retention	10 years
Erase Cycles	>100,000 times
Connector Durability	10,000 times
System Performance	Read: 12MB/sec (max.), Write: 8MB/sec (max.)
Power Supply	DC 5V±10% via the USB port
Temperature Range	Operation: 0-70°C, Non-Operating: -40°C-85°C
Certificates	CE, FCC, BSMI

Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
V_{CC}	Power Supply	4.5 to 5.5	V
V_{IN}	Input Voltage	3 to 3.6	V

DC Characteristics:

Symbol	Parameter	Min.	Typ.	Max.	Units
I_{IL}	Input Leakage Current (No pull-up or pull-down)	-10		10	μA
I_{OZ}	Tri-State Leakage Current	-10		10	μA
V_{IL}	Input Low Voltage			0.8	V
V_{IH}	Input High Voltage	2.0			V
V_{OL}	Output Low Voltage (I_{OL}=4mA)			0.4	V
V_{OH}	Output High Voltage (I_{OH}=4mA)	2.4			V
Rt	Input pull-up/down resistance (V_{IL}=0V or V_{IH}= V_{CC})	40	75	190	KΩ
I_{ACT}	Active Current			73	mA
I_{SLP}	Sleep Current			120	μA

Recommended Operating Conditions

Symbol	Parameter	Min.	Typ.	Max.	Units
V_{CC}	Power Supply Voltage	4.5	5	5.5	V
V_{IN}	Input Voltage	3	3.3	3.6	V
V_{CC18}	Internal Power Supply	1.62	1.8	1.98	V

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